UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

02/27/2009

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

ZIMMER, ANTHONY J

ART UNIT PAPER NUMBER

1793

DATE MAILED: 02/27/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/539,706	06/17/2005	Masaaki Sakai	Q73663	4822	

TITLE OF INVENTION: HETEROPOLYACID AND OR ITS SALT SUPPORTED CATALYST, PRODUCTION PROCESS OF THE CATALYST AND PRODUCTION PROCESS OF COMPOUND USING THE CATALYST

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 05/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must					
23373 SUGHRUE M 2100 PENNSYI SUITE 800]	have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with States Postal Service with sufficient postage for first class mail in a addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO (571) 273-2885, on the date indicated below.				he United envelope facsimile			
WASHINGTON	N, DC 20037		[(Depos	sitor's name)
									(Signature)
			l						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ΓOR		ATTO:	RNEY DOCKET NO.	CONFIRMATIO	N NO.
10/539,706	06/17/2005	•	Masaaki Sakai			Q73663	4822		
	N: HETEROPOLYACID	AND OR ITS SALT SUSING THE CATALYST	UPPORTED CATALY	ST, PR	RODUCTION PI	ROCES	S OF THE CATALY	ST AND	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE P	REV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE D	UE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	05/27/20)09
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
ZIMMER, A	ZIMMER, ANTHONY J 1793		502-300000						
PLEASE NOTE: Un	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. THE PATENT (print or type) data will appear on the patent. If an assignee is identified below, the document has been filed for T a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY)								
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	☐ In	ndividual 🖵 Co	orporati	on or other private gro	oup entity 🖵 Go	vernment
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies ☐ Change in Entity Status (from status indicated above)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
_ 。 .	n us (from status indicate is SMALL ENTITY stati	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no	longer	claiming SMAI	L ENT	TITY status. See 37 Cl	FR 1.27(g)(2).	
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req	uired) will not be accepte	d from anyone other th						er party in
· ·					Date				
Typed or printed name				Registration No.				_	
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	itiality is governed by 35 dapplication form to the ions for reducing this bu. Virginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is 7 depending upon the in 10 the chief Information Of 11 COMPLETED FORMS	or reta s estim ndividu fficer, ¹ S TO T	ain a benefit by the ated to take 12 rall case. Any cours. Patent and THIS ADDRESS	he publ minutes mment Traden S. SENI	ic which is to file (and to complete, including s on the amount of tinark Office, U.S. Depo D TO: Commissioner	by the USPTO to g gathering, prep ne you require to urtment of Comm for Patents, P.O. 1	o process) aring, and complete erce, P.O. 3ox 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/539,706	06/17/2005	Masaaki Sakai	Q73663	4822	
23373 75	23373 7590 02/27/2009		EXAMINER		
SUGHRUE MIC	N, PLLC	ZIMMER, ANTHONY J			
	ANIA AVENUE, N.W	ART UNIT	PAPER NUMBER		
SUITE 800 WASHINGTON, I	DC 20037		1793 DATE MAILED: 02/27/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 669 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 669 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/539,706	SAKAI, MASAAKI				
Notice of Allowability	Examiner	Art Unit				
	ANTHONY J. ZIMMER	1793				
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included attorned in the application will be mailed in due course. THIS				
1. \boxtimes This communication is responsive to $\underline{\textit{communications filed}}$	<u>12/12/2008</u> .					
2. The allowed claim(s) is/are 1,3-16 and 19.						
 3. Acknowledgment is made of a claim for foreign priority unappriority and a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application No	D				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subministration (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.					
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (P	TO-948) attached				
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of						
each sheet. Replacement sheet(s) should be labeled as such in the						
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	al Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summ	• •				
	Paper No./Mail	Date				
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's Ame					
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ☐ Examiner's Stat9. ☐ Other	ement of Reasons for Allowance				

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sheldon Landsman on 2/19/2009.

The application has been amended as follows:

In the fourth and fifth lines of claim 4, delete "(Revised Edition of IUPAC Inorganic Chemistry Nomenclature (1989))"

Election/Restrictions

Claims 1, 3-7, and 19 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 8-16, directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 6/16/2008 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim

Application/Control Number: 10/539,706 Page 3

Art Unit: 1793

presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY J. ZIMMER whose telephone number is (571)270-3591. The examiner can normally be reached on Monday - Friday 7:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ajz

/Steven Bos/ Primary Examiner, Art Unit 1793